

FIG. 1A

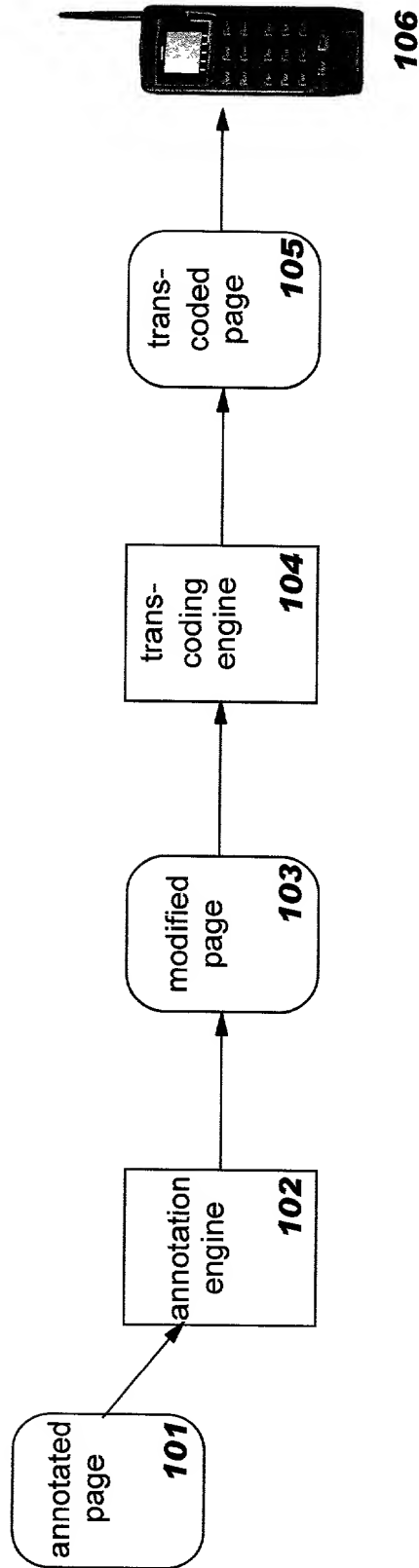


FIG. 1B

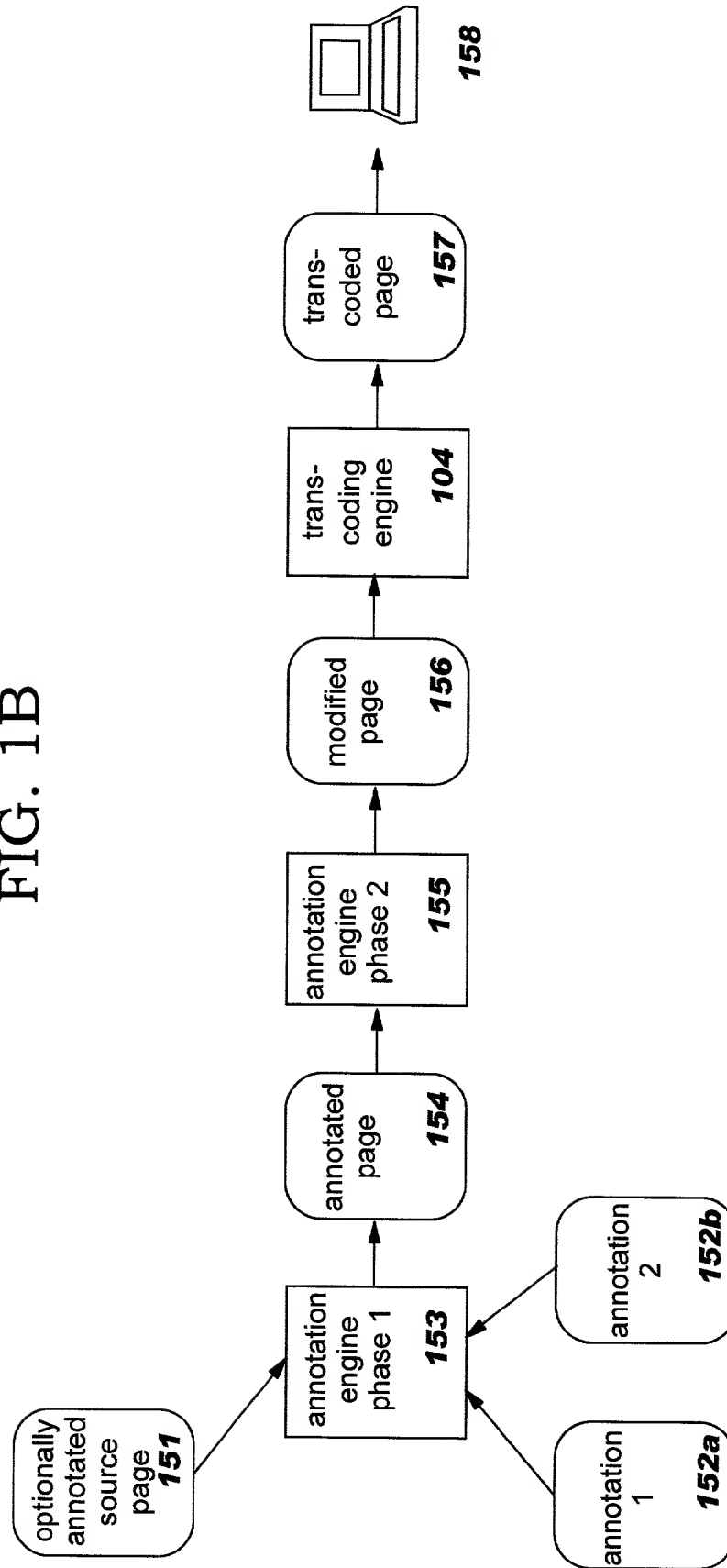


FIG. 2A

200

```
<html>
<head>
<title>Internal Annotation Example</title>

<body>
```

210 <p>Here is the first sentence.

220

```
<!--
  <?xml version="1.0" encoding="ISO-8859-1"?>
  <annot version="1.0">
    <remove/>
  </annot>
-->
```

230

240

```
<p>And here is another sentence.
<b>Hello world.</b>
```

```
</body>
</html>
```

FIG. 2B

250

```
<html>  
<head>  
<title>Internal Annotation Example</title>
```

```
<body>
```

210 <p>Here is the first sentence.

```
</body>  
</html>
```

FIG. 2B

FIG. 3
(PRIOR ART)

Globber Pattern	Regular Expression	Explanation
"abc"	"^abc\$"	The string "abc".
"abc*def."	"^abc.*def.\$"	The string starting with "abc" and ending with "def".
"*abc*"	"abc"	A string containing "abc".
"*{ab,cd}*ter."	"(ab cd).*ter\.\$"	A string containing "ab" or "cd" which ends with "ter".

FIG. 5A

500

510

```
<?xml version="1.0" encoding="ISO-8859-1"?>
<annot version="1.0">
  <comment>External Annotation Example 1</comment>

  <description take-effect="after" target="/HTML[1]/BODY[1]/*[1]">
    <remove />
  </description>
</annot>
```

FIG. 5B

550

```
<html>
<head>

<body>

<p>Here is the first sentence.

<p>And here is another sentence.
<b>Hello world.</b>

</body>
</html>
```

FIG. 6

600

```

<?xml version='1.0' ?>
<annot version="1.0">

  <description take-effect="before" target="TR[2]"
    match-key="/display.small/device.cellphone/">
    <remove />
  </description>

  <description target="/descendant::P[descendant::text()[contains(., 'IBM')]]"
    match-key="/display.gray4/device.pda/device.cellphone/">
    <take-effect-before>
      <push/>
      <keep/>
      <remove tag="IMG" />
    </take-effect-before>

    <take-effect-after>
      <pop/>
    </take-effect-after>
  </description>

</annot>

```

610

620

FIG. 7A

700

```
<?xml version='1.0' ?>
```

```
<annot version="1.0">
```

710

```
<description take-effect="before" target="/HTML[1]/BODY[1]/*[1]">  
  <remove />  
</description>
```

720

```
<description take-effect="before" target="/descendant::TABLE[1]">  
  <keep />  
</description>
```

730

```
<description take-effect="before" target="/descendant::TR[2]">  
  <remove />  
</description>
```

```
</annot>
```

FIG. 7A

FIG. 7B

740

750

760

770

```
<html>
  <head>
    <TITLE>A Simple Example To Illustrate Table Scoped Clipping</TITLE>
  </head>
  <body>
    <H1>HTML is Easy To Learn</H1>
    <TABLE>
      <TR>
        <TD> Cars</TD>
        <TD> Colors</TD>
        <TD> Interiors</TD>
      </TR>
      <TR>
        <TD> 2 Door</TD>
        <TD> Red</TD>
        <TD> Leather</TD>
      </TR>
    </TABLE>
    <P>Welcome to the world of HTML.
    This is the first paragraph. While short it is
    still a paragraph!</P>
    <P>And this is the second paragraph.</P>
  </body>
</html>
```

FIG. 7C

760

```
<html>
  <head>
    <TITLE>A Simple Example To Illustrate Table Scoped Clipping</TITLE>
  </head>
  <body>
    <TABLE>
      <TR>
        <TD> Cars</TD>
        <TD> Colors</TD>
        <TD> Interiors</TD>
      </TR>
    </TABLE>
    <P>Welcome to the world of HTML.
    This is the first paragraph. While short it is
    still a paragraph!</P>
    <P>And this is the second paragraph.</P>
  </body>
</html>
```

FIG. 8

800

810

```
<?xml version='1.0' ?>
<annot version="1.0">
  <description target="/descendant::P[descendant::text()[contains(.,'IBM')]]">
    < take-effect-before>
      <push/><keep/> <remove tag="IMG" />
    </take-effect-before>
    < take-effect-after>
      <pop/>
    </ take-effect-after>
  </description>
</annot>
```

FIG. 8

FIG. 9A

900

```
<?xml version='1.0' ?>
<annot version="1.0">
  <description take-effect="before" target="/descendant::FORM[1]">
    <replace>
      <form>
        <text>NEW prompt for INPUTTEXT3(now a select)</text>
        <field name="INPUTTEXT3" type="SELECT">
          <option value="No" label="No." />
          <option value="Yes" label="Yes." />
          <option value="Maybe" label="Don't Care" />
        </field>
        <text>NEW prompt for INPUTTEXT2</text>
        <field name="INPUTTEXT2" value="bottle washer" />
        <field name="INPUTTEXT1" value="Bob Jones" type="HIDDEN" />
        <field type="SUBMIT" />
      </form>
    </replace>
  </description>
</annot>
```

910

920

FIG. 9A

930

FIG. 9B

```
<HTML>
<HEAD>
  <TITLE>Form Test Page</TITLE>
  <META content="text/html; charset=iso-8859-1" http-equiv=Content-Type>
  <META content="MSHTML 5.00.2722.2800" name=GENERATOR>
</HEAD>
<BODY bgColor=#ffffff text=#000000>
  <H1 ALIGN="center">Form Example </H1> <BR>
  If annotation has been applied, the first input field will be made hidden and given a default value,
  the third input field will become the first input field listed and will also be converted into a select
  box, and the second input field will have a new default value (if default values are supported by
  the device)<BR>
  <FORM>
    <B>Prompt For INPUTTEXT1</B>
    <INPUT TYPE=TEXT NAME="INPUTTEXT1" SIZE=25 VALUE="Bob Smith"><BR>
    <B>Prompt for INPUTTEXT2</B>
    <INPUT TYPE=TEXT NAME="INPUTTEXT2" SIZE=25 VALUE="cook"><BR>
    <B>Prompt for INPUTTEXT3</B>
    <INPUT TYPE=TEXT NAME="INPUTTEXT3" SIZE=25 VALUE="Blue"><BR>
    <INPUT TYPE=SUBMIT NAME="SUBMIT" VALUE="RESPOND">
  </FORM>
</BODY>
</HTML>
```

940

FIG. 9C

950

```

<HTML>
<HEAD>
<TITLE>Form Test Page</TITLE>
<META content="text/html; charset=iso-8859-1" http-equiv=Content-Type>
<META content="MSHTML 5.00.2722.2800" name=GENERATOR>
</HEAD>
<BODY bgColor=#ffffff text=#000000>
  <H1 ALIGN="center">Form Example </H1> <BR>

```

If annotation has been applied, the first input field will be made hidden and given a default value, the third input field will become the first input field listed and will also be converted into a select box, and the second input field will have a new default value (if default values are supported by the device)


```

<FORM>

```

```

  NEW input for INPUTTEXT3(now a select)

```

```

  <select name="INPUTTEXT3">

```

```

    <option value="No">No.

```

```

    <option value="Yes">Yes.

```

```

    <option value="Maybe">Don't Care

```

```

  </select>

```

```

  NEW prompt for INPUTTEXT2

```

```

  <input type="TEXT" name="INPUTTEXT2" size="25" value="bottle washer">

```

```

  <input type="HIDDEN" name="INPUTTEXT1" value="Bob Jones">

```

```

  <input type="SUBMIT" name="SUBMIT" value="RESPOND">

```

```

</FORM>

```

```

</BODY>

```

```

</HTML>

```

960

FIG. 10

1000

1010 `<?xml version='1.0' ?>
<annot version="1.0">
<description target="//descendant::IMG[globb-search(@src,'*.{jpg,gif,png}*')]">
 < take-effect-before>
 <push/>
 <replace>
 <text> ..PIC.. </text>
 </replace>
 </take-effect-before>
 < take-effect-after>
 <pop/>
 </ take-effect-after>
</description>
</annot>`

FIG. 11A1
FIG. 11A2

FIG. 11A

1100

FIG. 11A1

```
<?xml version="1.0" ?>
<annot version="1.0">
  <comment> This is the ExternalAnnotationTest.html page </comment>

  <description take-effect="before" target="/HTML[1]/BODY[1]/*[1]">
    <remove />
  </description>

  <description take-effect="before" target="/descendant::TABLE[1]">
    <keep />
  </description>

  <insertcomment> This should be inserted into the HTML Source </insertcomment>
  1120 <insertattribute name="summary" value="Added Summary for the table" />
  1130 <table majoraxis="row">
    <column index="1" clipping="remove" />
    <column index="*" clipping="keep" />
    <row index="*" clipping="keep" />
    <row index="2" clipping="remove" />
  </table>
  </description>

  <description take-effect="after" target="/descendant::TABLE[1]">
    <remove />
  </description>
```

1110

1140

FIG. 11A2

```
<description take-effect="before"
  target="/descendant::TABLE[2]/TBODY[1]/TR[1]/TH[1]/*[1]">
  <keep />
</description>
<description take-effect="after"
  target="/descendant::TABLE[2]/TBODY[1]/TR[1]/TH[1]/*[1]">
  <remove />
</description>
<description take-effect="before"
  target="/descendant::TABLE[2]/TBODY[1]/TR[1]/TH[3]/text()">
  <keep />
</description>
<description take-effect="after"
  target="/descendant::TABLE[2]/TBODY[1]/TR[1]/TH[3]/text()">
  <remove />
</description>
</annot>
```

FIG. 11B

1150

```
<HTML>
<HEAD>
<TITLE>External Ano</TITLE>
</HEAD>
<BODY>
<B>Hello world.</B>

<TABLE>
<TR><TH>Cars</TH><TH>Colors</TH><TH>Interiors</TH></TR>
<TR><TH>2 Door</TH><TH>Red</TH><TH>Leather</TH></TR>
<TR><TH>4 Door</TH><TH>Blue</TH><TH>Cloth</TH></TR>
<TR><TD>Convertible</TD><TD>Black</TD><TD>Vinyl</TD></TR>
</TABLE>

Remove This text.

<TABLE>
<TR><TH><B>Warranty</B></TH><TH><B>Length</B></TH>
      <TH>Restrictions</TH>
</TR>
<TR><TH>Silver</TH><TH>2 Years</TH><TH>Yes</TH></TR>
<TR><TH>Gold</TH><TH>5 Years</TH><TH>No</TH></TR>
</TABLE>

</BODY>
</HTML>
```

FIG. 11C

1160

```
<HTML>
<HEAD>
<TITLE>External Annotation</TITLE>
</HEAD>
<BODY>
```

1170

```
<!-- This should be inserted into the HTML Source -->
```

1180

```
<TABLE summary="Added Summary for the table">
<TR><TH>Colors</TH><TH>Interiors</TH></TR>
<TR><TH>Blue</TH><TH>Cloth</TH></TR>
<TR><TD>Black</TD><TD>Vinyl</TD></TR>
</TABLE>
```

```
<B>Warranty</B>
Restrictions
```

```
</BODY>
</HTML>
```

FIG. 11C

FIG. 12A

1200

ITEM	BUY	SELL
ibm	\$100	\$120
lotus	\$80	\$75

FIG. 12B

ITEM
BUY
SELL
ibm
\$100
\$120
lotus
\$80
\$75

FIG. 12C

1210

ITEM
ibm
BUY
\$100
SELL
\$120
ITEM
lotus
BUY
\$80
SELL
\$75

FIG. 13A

1300

```
<?xml version='1.0' ?> /1310  
<annot version="1.0" condition="((User_Agent=Mozilla/4.*) |  
(User_Agent=Mozilla/5.*)& ! (User_Agent=*MSIE*))">  
...rest of external annotation file follows...  
</annot>
```

FIG. 13B

1320

```
<description take-effect="before"  
  target="/HTML[1]/BODY[1]/*[1]"  
1330 condition="((User_Agent=Mozilla/4.*) | (User_Agent=Mozilla/5.*)&  
  & ! (User_Agent=*MSIE*))" >  
  <remove />  
</description>
```

FIG. 13C

1340

```
<!--  
  <?xml version="1.0" encoding="ISO-8859-1"?>  
  <annot version="1.0" condition="((User_Agent=Mozilla/4.*) |  
    (User_Agent=Mozilla/5.*)& ! (User_Agent=*MSIE*))">  
    <remove/>  
  </annot>  
  --!>
```

FIG. 14

1400

1410

```
<description take-effect="before" target="/descendant::IMG[2]">  
<inserthtml><![CDATA[ <p> Hello World]]></inserthtml>  
</description>
```

FIG. 15

```
<insertmarkup>  
  <![CDATA[<do type="accept" label="Next"> <go href="#Second_Card"/></do>  
</insertmarkup>
```

FIG. 16

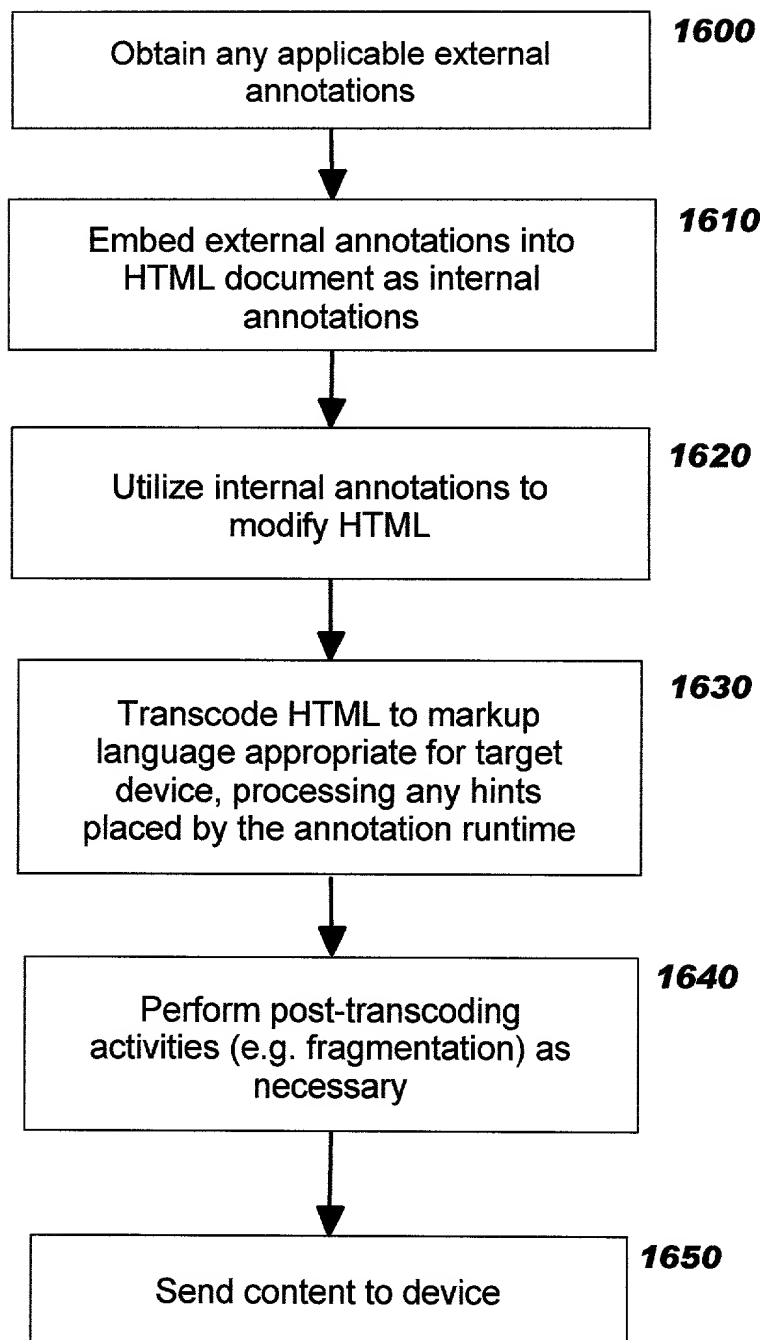


FIG. 17

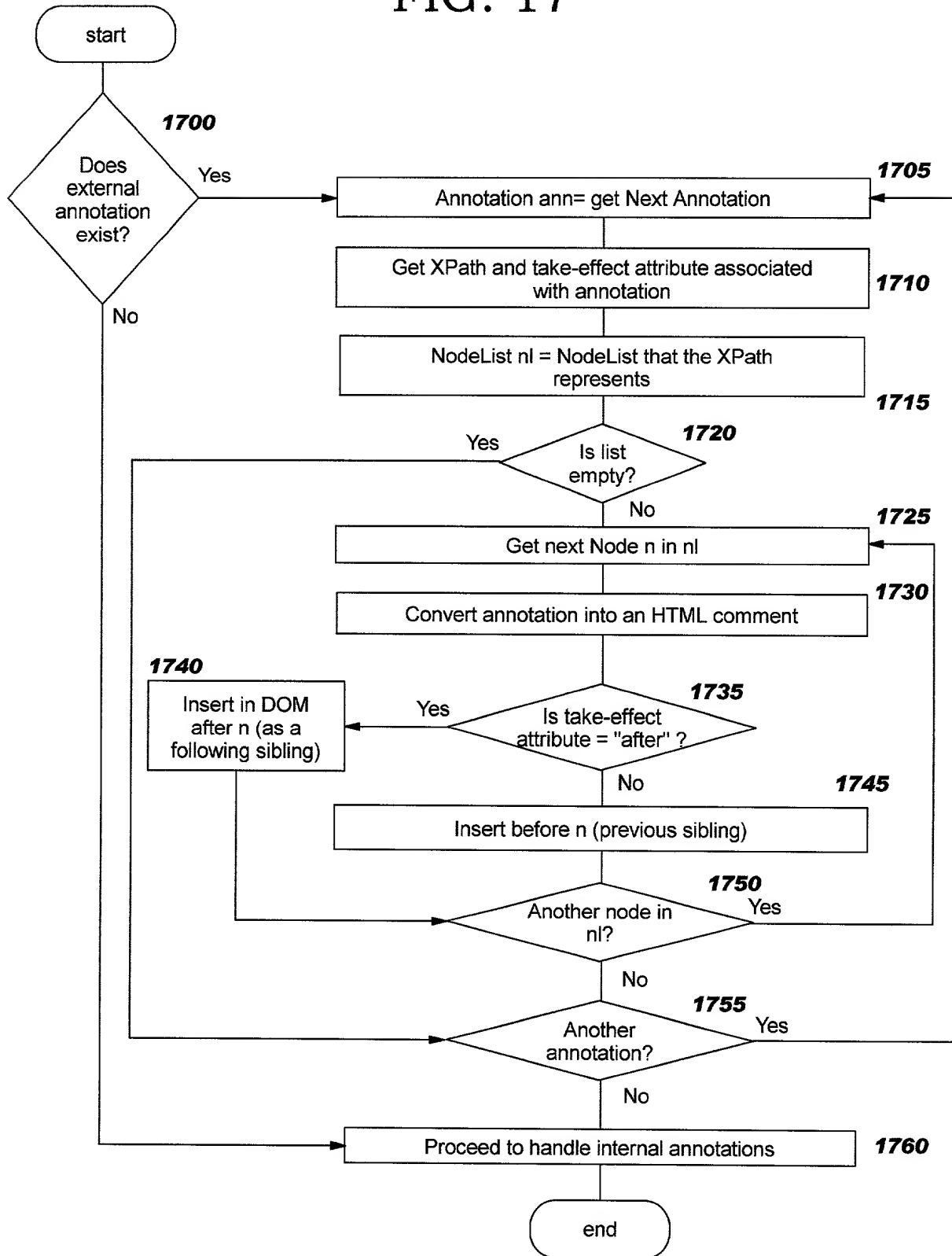


FIG. 18

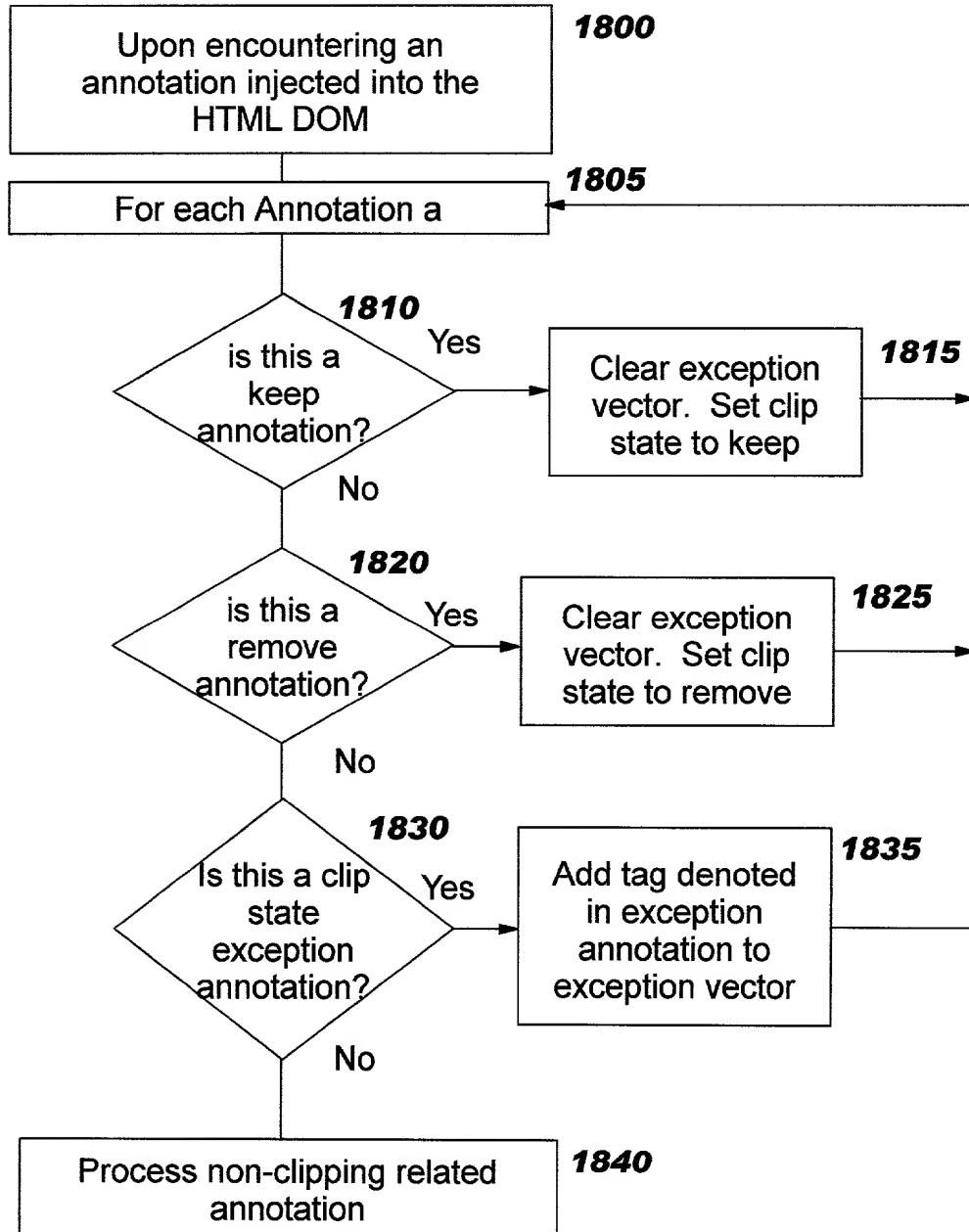


FIG. 18

FIG. 19

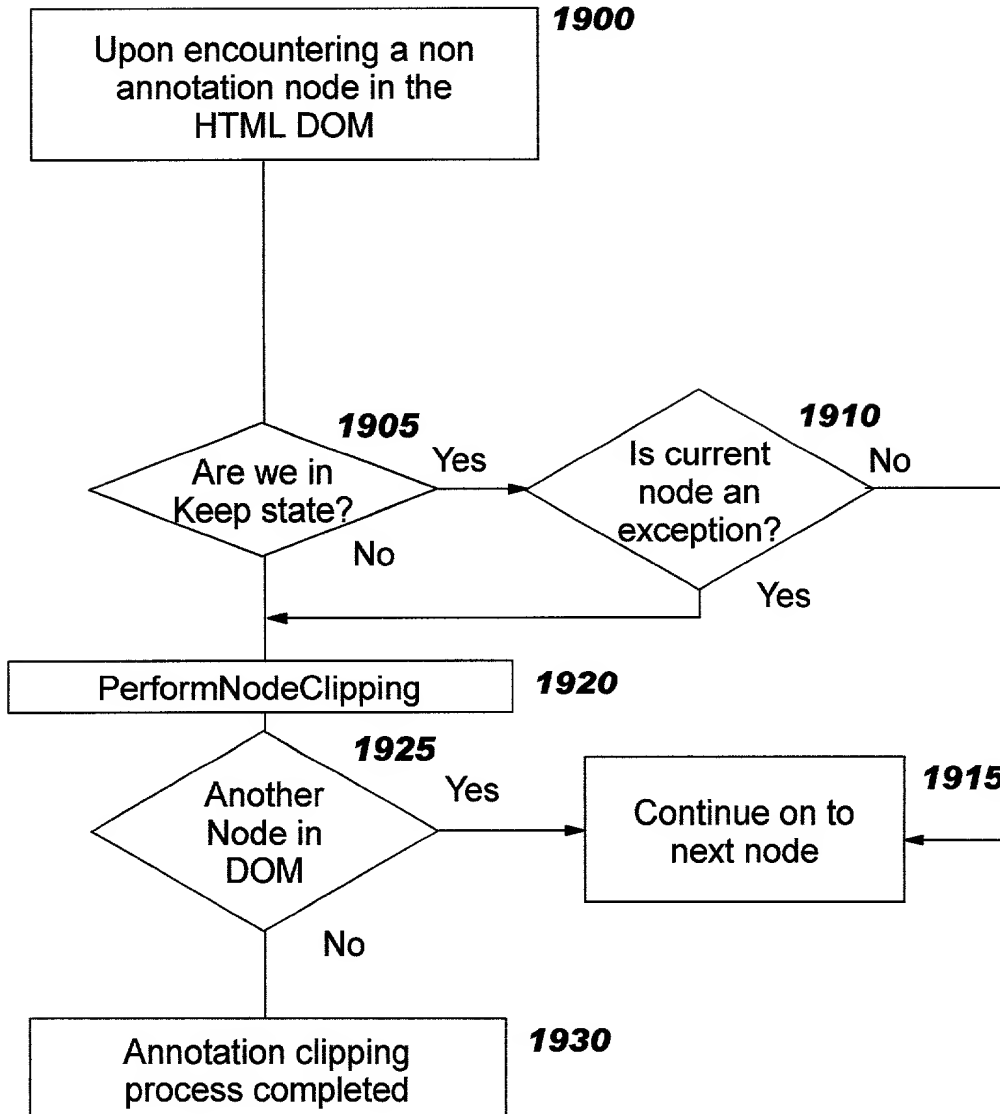


FIG. 20

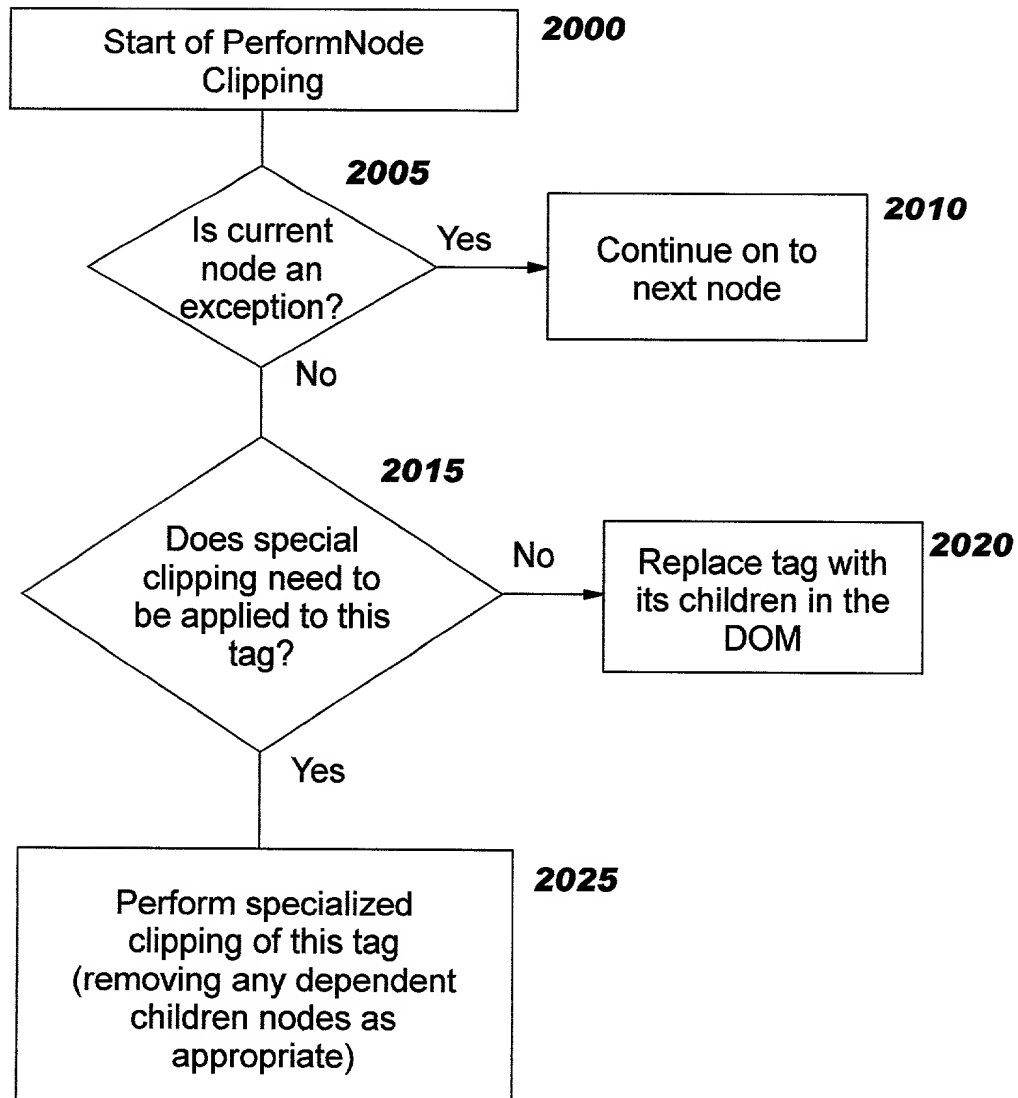
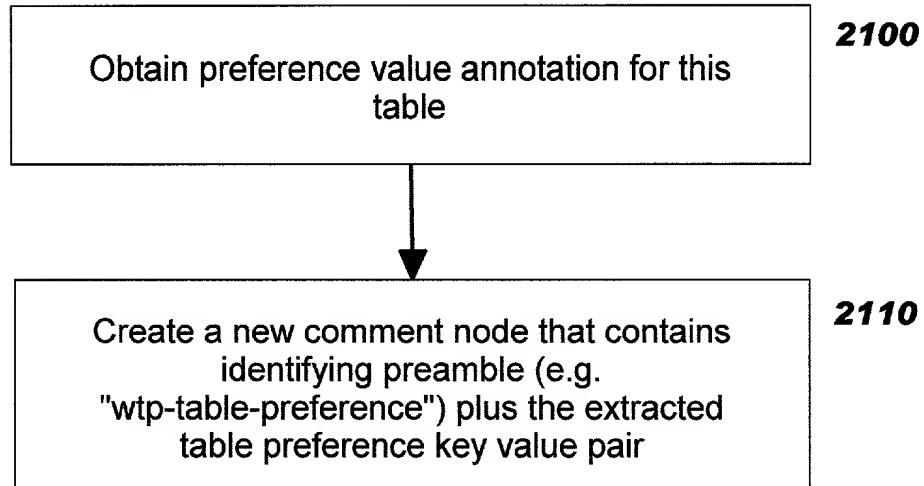


FIG. 21A



100270" E800T660

FIG. 21B

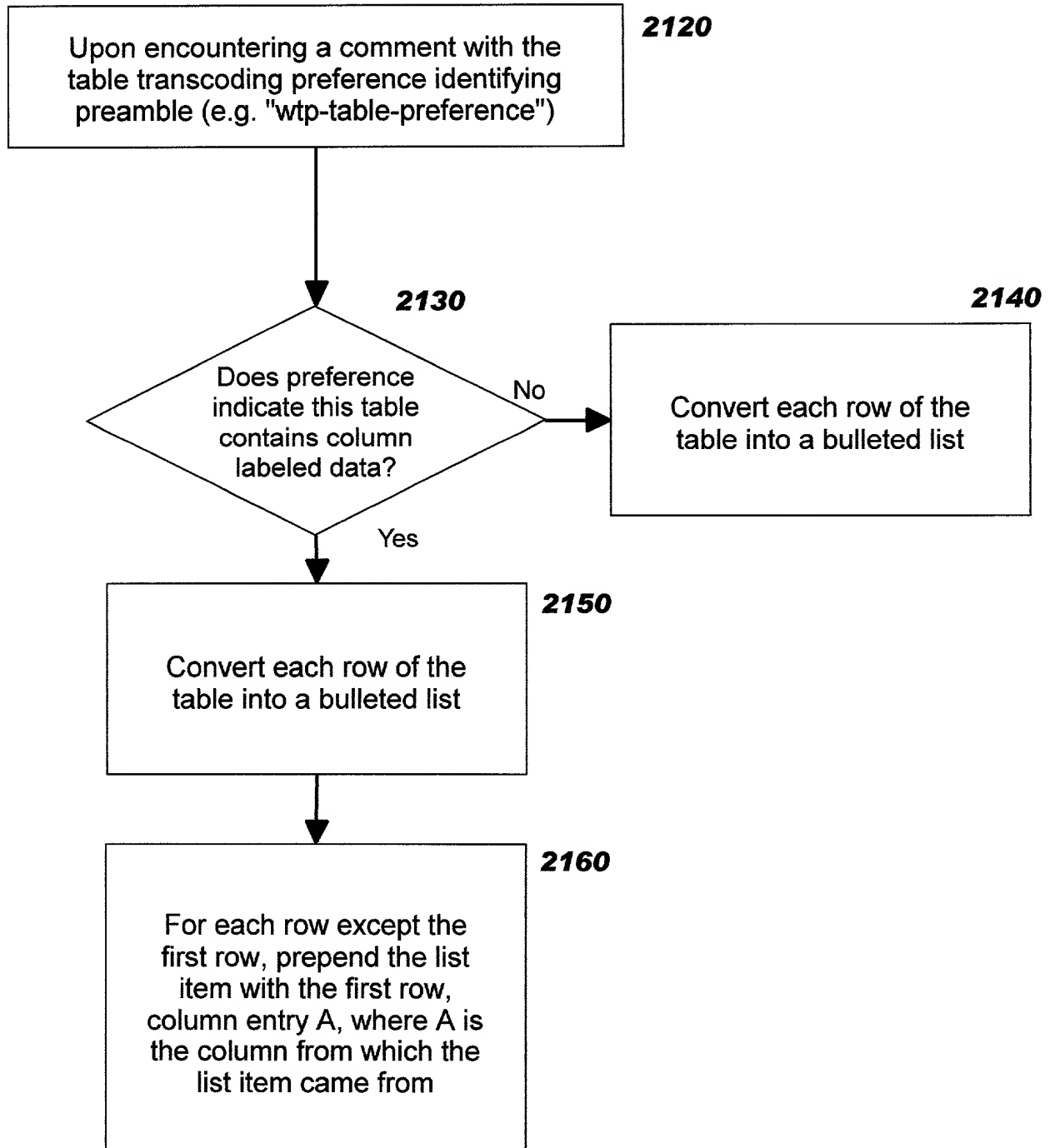


FIG. 22

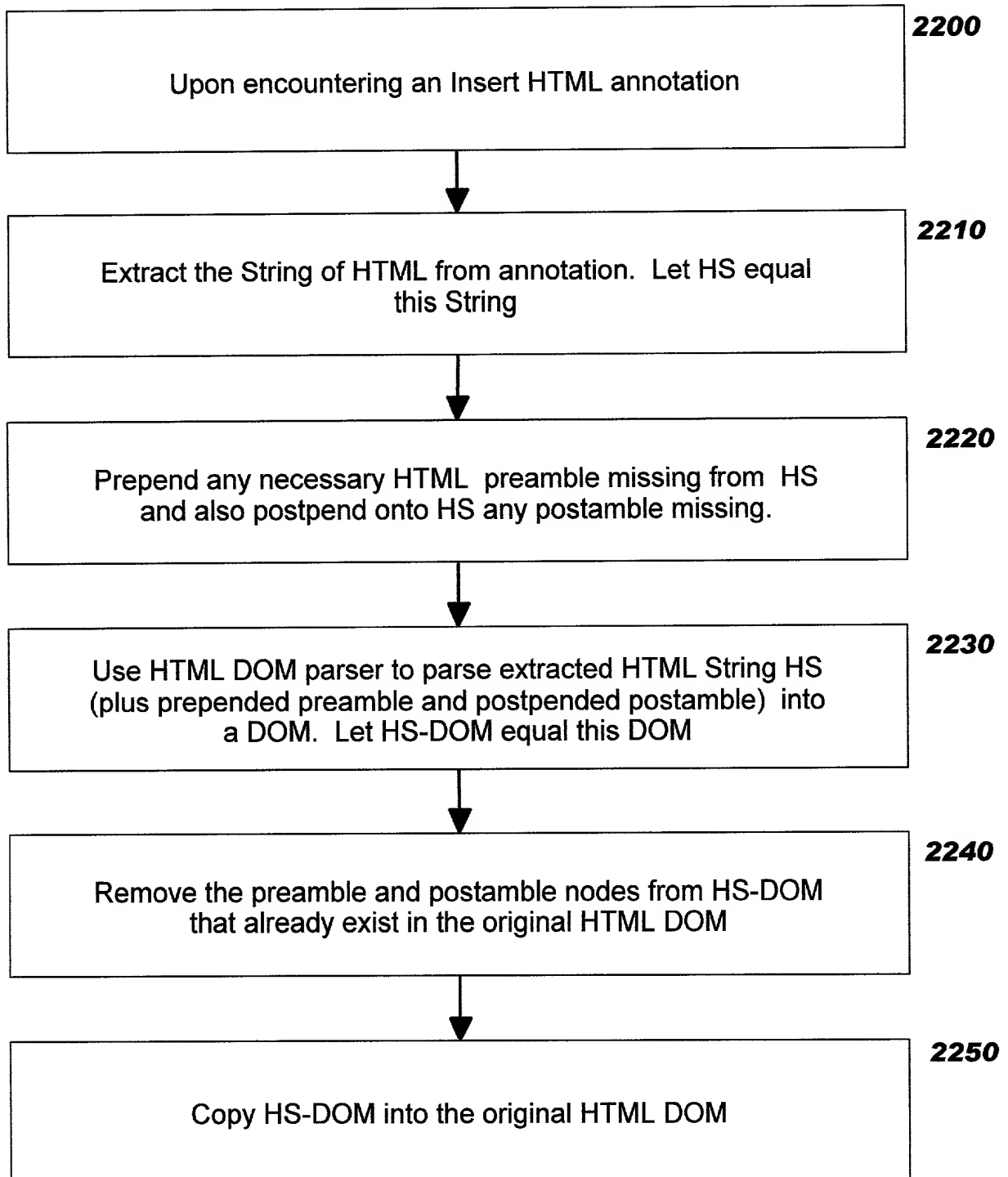


FIG. 23A

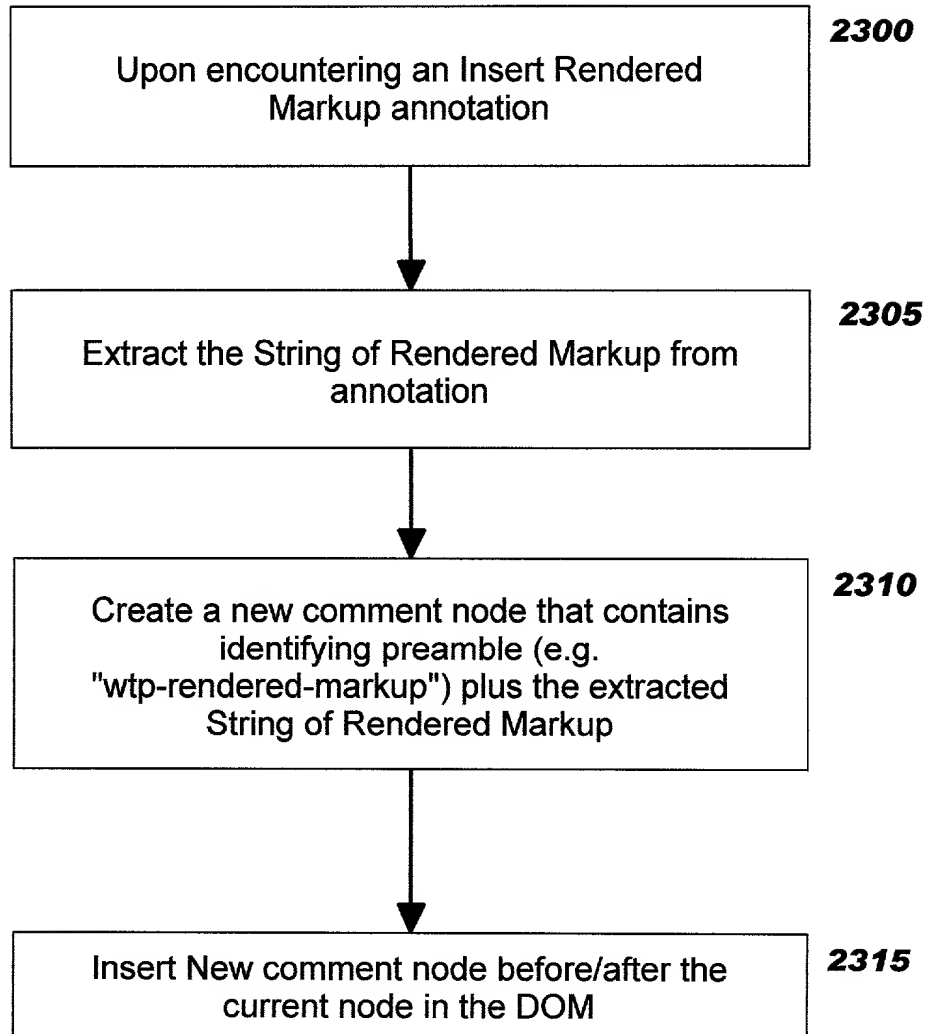


FIG. 23B

